

APPENDIX "C"

Schedule

All work by the Consultant under this agreement shall be completed and delivered to the LOCAL PUBLIC AGENCY no later than _____ calendar days after the notification to proceed from the LOCAL PUBLIC AGENCY, exclusive of LOCAL PUBLIC AGENCY'S review time.

For the purpose of contract control the work will be submitted by the CONSULTANT to the LOCAL PUBLIC AGENCY for review and approval within the following approximate time periods:

A. Field Survey

1. Field Books for Preliminary Review within _____ calendar days after receipt of notice to proceed with the field survey
2. Final within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of comments following the preliminary review

B. Combined Location - Design Study Report

1. Preliminary Draft at the time of submission of Preliminary Field Check Plans
2. Draft at the time of submission of Combined Location - Design Hearing Plans
3. Final Draft at time of request for Combined Location - Design approval

C. Environmental Services

1. Documentation of National List of Categorical Exclusions
 - a. Initial submittal of documentation within _____ days of notice to proceed from the LOCAL PUBLIC AGENCY. (If early coordination is provided to CONSULTANT by the LOCAL PUBLIC AGENCY the initial submittal of documentation will be

submitted within 60 days of notice to proceed from the LOCAL PUBLIC AGENCY.)

- b. Revised documentation within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the initial submittal.
- c. Any necessary revisions within _____ calendar days after receipt of Federal Highway Administration comments on the documentation.
- d. Furnish copies of the approved documentation within _____ calendar days after receipt of Federal Highway Administration concurrence on the documentation.

2. Environmental Assessment

- a. Preliminary submittal of the Environmental Assessment within _____ days of notice to proceed by the LOCAL PUBLIC AGENCY.
- b. Revised Environmental Assessment within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the preliminary submittal of the Environmental Assessment.
- c. Any necessary revisions within _____ calendar days after receipt of Federal Highway Administration comments on the Environmental Assessment.
- d. Furnish copies of the approved Environmental Assessment within _____ calendar days after receipt of Federal Highway Concurrence in the Environmental Assessment.
- e. Furnish information necessary to prepare FONSI within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of comments of the Environmental Assessment

and/or transcript of the Public Hearings or summary of a public information meeting.

3. Full Environmental Impact Statement

- a. Preliminary Draft EIS within _____ calendar days after notice to proceed from the LOCAL PUBLIC AGENCY.
- b. Draft EIS within _____ calendar days after receipt of comments from the LOCAL PUBLIC AGENCY on the preliminary Draft EIS.
- c. Revised Draft EIS within _____ calendar days after receipt of Federal Highway Administration comments of the Draft EIS.
- d. Furnish required copies of the approved Draft EIS within 14 calendar days after receipt of the Federal Highway Administration's adoption of the Draft EIS for circulation.
- e. Furnish preliminary Final EIS within _____ calendar days after receipt of all comments on the Draft EIS and receipt of the transcript of the public hearing.
- f. Revised Final EIS within _____ calendar days after receipt of either LOCAL PUBLIC AGENCY or Federal Highway Administration comments on the Final EIS.
- g. Furnish required copies of the Final EIS for legal sufficiency review, etc., within _____ calendar days of notice from the LOCAL PUBLIC AGENCY.
- h. Furnish required copies of the Final EIS, after Federal Highway Administration Region Approval, within _____ calendar days of notice from the LOCAL PUBLIC AGENCY.

D. Roadway Design and Right-of-Way Plans

*

1. Preliminary Plan Details within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed

with design

2. Grade Review within 60 calendar days after receipt from the LOCAL PUBLIC AGENCY notice to proceed with design
3. Preliminary Field Check Plans within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Grade Review Plans
4. Combined Location - Design Hearing Plans within _____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Preliminary Field Check Plans
- * 5. Drainage Design complete within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
6. Right-of-way check prints within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
- * 7. Grade and Earthwork finalized within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received
8. Final Field Check Plans within _____ calendar days after notification from the LOCAL PUBLIC AGENCY that location - design approval has been received.
9. Right-of-Way Tracings within _____ calendar days after approval of Right-of-Way check prints and Final Field Check Plans
10. Final Contract Plans for Preliminary Review within _____ calendar days after approval of Final Field Check Plans.
11. Final Tracings with Cost Estimates and Special Provisions within _____ calendar days after receipt from the LOCAL PUBLIC

AGENCY of approval of preliminary review of final plans.

E. Bridge Design

1. Preliminary Plan Details within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design
2. Grade Review and Structure Type Selection within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design
3. Structure Size and Type Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Grade Review and Structure Type Selection
4. Field Check Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Structure Size and Type Plans
5. Plans for Combined - Location Design Hearing within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Field Check Plans
6. Preliminary Plans for final approval within ____ calendar days after notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Hearing approval has been received
- * 7. Superstructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.
- * 8. Substructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.
9. Final Contract Plans for Preliminary Review within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.

10. Final Tracings with Cost Estimates and Special Provisions within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans.

F. Bridge Design and Right-of-Way Plans

1. Preliminary Plans Details within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design.
2. Grade Review and Structure Type Selection within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of notice to proceed with design.
3. Structure Size and Type Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Grade Review and Structure Type Selection.
4. Field Check Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Structure Size and Type Plans.
5. Plan for Combined - Location Design Hearing and Right-of-Way check prints within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of the Field Check Plans.
6. Preliminary Plans for final approval within ____ calendar days after notification from the LOCAL PUBLIC AGENCY that Combined - Location Design Hearing approval has been received.
7. Final Right-of-Way Tracing within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans and including R/W check print approval.
- * 8. Superstructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans

- * 9. Substructure Plans within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans
- 10. Final Contract Plans for Preliminary Review within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of Preliminary Plans
- 11. Final Tracings with Cost Estimates and Special provisions within ____ calendar days after receipt from the LOCAL PUBLIC AGENCY of approval of preliminary review of final plans

G. Soils Investigation and Reports

No later than the time set out above for submission of preliminary plans for final approval.

NOTE: Asterisk (*) indicates submission to LOCAL PUBLIC AGENCY not required.

The schedule set out herein are for each structure. The work on a structure does not need to run concurrently with any other structure included in this agreement.

APPENDIX "D"

Compensation

A. Amount of Payment

1. The CONSULTANT shall receive as payment for the work performed under this Agreement the total fee not to exceed \$ _____, unless a modification of the Agreement is approved in writing by the LOCAL PUBLIC AGENCY and the Indiana Department of Transportation.
2. The CONSULTANT will be paid for the work performed under this Agreement, excluding the geotechnical services and pavement investigation services, on a lump sum basis in accordance with the following schedule:
 - a. Survey \$ _____
 - b. Design Study and Report _____
 - c. Combined Location - Design Study _____
 - d. Environmental Services
 - (1) Categorical Exclusion _____
 - OR
 - (2) Environmental Assessment FONSI _____
 - OR
 - (3) Environmental Impact Statement _____
 - (4) Public Hearing Hours _____
 - (5) Archaeological reconnaissance _____
 - e. Road Design and Plans (including R/W Plans) _____

- f. Bridge Design and Plans (including
R/W plans) _____
- g. Plat #3 _____
- h. Signs _____
- i. Signals _____
- j. Warrant Studies _____

The CONSULTANT shall not be paid for any service performed by the LOCAL PUBLIC AGENCY or not required to develop this project.

3. The CONSULTANT shall receive as payment for the work performed under this Agreement related to geotechnical services based on the specific cost per unit multiplied by the actual units of work performed.

- a. Geotechnical boring and sampling, as set out herein, will be paid for each of the following items:

	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
1. Hand Borings	_____ lft	@ _____	\$ _____
2. Truck mounted borings with 2' auger head	_____ lft	@ _____	\$ _____
3. Skid mounted borings Rd. _____ lft with 2' auger head Br. _____ lft		@ _____	\$ _____
4. Truck mounted borings with Split-spoon sampling Rd. _____ lft Br. _____ lft		@ _____	\$ _____
5. Skid mounted borings with Split-Spoon sampling Rd. _____ lft Br. _____ lft		@ _____	\$ _____
6. Truck mounted rock core borings Rd. _____ lft Br. _____ lft		@ _____	\$ _____

- | | | | | |
|-----|---|---------------|---------------|----------|
| 7. | Skid mounted rock core borings | Rd. _____ lft | | |
| | | Br. _____ lft | @ _____ | \$ _____ |
| 8. | Truck mounted borings through Bedrock or Boulders | _____ lft | @ _____ | \$ _____ |
| 9. | Skid mounted borings through Bedrock or Boulders | _____ lft | @ _____ | \$ _____ |
| 10. | Soundings | _____ lft | @ _____ | \$ _____ |
| 11. | Casing | _____ lft | @ _____ | \$ _____ |
| 12. | Bag Samples | _____ ea | @ _____ | \$ _____ |
| 13. | 2-inch undisturbed samples | _____ ea | @ _____ | \$ _____ |
| 14. | 3-inch undisturbed samples | _____ ea | @ _____ | \$ _____ |
| 15. | 3-inch undisturbed samples with stationary piston sampler | _____ ea | @ _____ | \$ _____ |
| 16. | Additional Split-Spoon samples | _____ ea | @ _____ | \$ _____ |
| 17. | Floating equipment for machine borings | _____ LS | @ _____ | \$ _____ |
| 18. | Floating equipment for hand borings | _____ LS | @ _____ | \$ _____ |
| 19. | Remobilization | _____ LS | @ _____ | \$ _____ |
| 20. | Mobilization | _____ ea | @ _____ | \$ _____ |
| 21. | Special Backfillings of Boreholes | | | |
| | a. 10 to 30 ft. deep | _____ LS | @ _____ | \$ _____ |
| | b. More than 30 feet deep | _____ LF | @ _____ | \$ _____ |
| 22. | Railroad Expenses | | \$actual cost | \$ _____ |
- b. Geotechnical laboratory testing, as set out herein, shall be paid for each of the following items:
- | | | | | |
|----|----------------|----------|---------|----------|
| 1. | Sieve Analysis | _____ ea | @ _____ | \$ _____ |
|----|----------------|----------|---------|----------|

2.	Hydrometer Analysis	_____ ea	@ _____	\$ _____
3.	Liquid Limit	_____ ea	@ _____	\$ _____
4.	Plastic Limit & Plasticity Index	_____ ea	@ _____	\$ _____
5.	Shrinkage Limit	_____ ea	@ _____	\$ _____
6.	pH Test	_____ ea	@ _____	\$ _____
7.	Standard Moisture - Density Relations	_____ ea	@ _____	\$ _____
8.	California Bearing Ratio	_____ ea	@ _____	\$ _____
9.	Moisture Content Test	_____ ea	@ _____	\$ _____
10.	Unit Weight Determination	_____ ea	@ _____	\$ _____
11.	Consolidation Test	_____ ea	@ _____	\$ _____
12.	Unconfined Compression Test	_____ ea	@ _____	\$ _____
13.	Unconsolidated Undrained Triaxial Test	_____ ea	@ _____	\$ _____
14.	Consolidated, UnDrained Triaxial Test	_____ ea	@ _____	\$ _____
15.	Consolidated, Drained Triaxial Test	_____ ea	@ _____	\$ _____
16.	Pore Pressure Measurements for Triaxial Test	_____ ea	@ _____	\$ _____
17.	Direct Shear Test	_____ ea	@ _____	\$ _____
18.	Loss on Ignition	_____ ea	@ _____	\$ _____

c. Geotechnical engineering, as set out herein, shall be paid for each of the following items:

1.	Settlement Analysis	_____ ea	@ _____	\$ _____
----	---------------------	----------	---------	----------

2.	Sand Drain Analysis	_____ ea	@ _____	\$ _____
3.	Sliding Block Slope Stability Analysis	_____ ea	@ _____	\$ _____
	a. O = O Analysis	_____ ea	@ _____	\$ _____
	b. C = O or C & O Analysis	_____ ea	@ _____	\$ _____
	c. Corrective Measures	_____ ea	@ _____	\$ _____
	d. Stage Construction Corrective Measure	_____ ea	@ _____	\$ _____
4.	Rotational Slope Stability Analysis			
	a. O = O Analysis	_____ ea	@ _____	\$ _____
	b. C = O or C & O Analysis	_____ ea	@ _____	\$ _____
	c. Corrective Measures	_____ ea	@ _____	\$ _____
	d. Stage Construction Corrective Measure	_____ ea	@ _____	\$ _____
5.	Bridge Foundation Analysis			
	a. 3 or less spans	_____ ea	@ _____	\$ _____
	b. 4 to 9 spans	_____ ea	@ _____	\$ _____
	c. 10 or more spans	_____ ea	@ _____	\$ _____
6.	Retainage Structure Analysis			
	a. Shallow Foundation	_____ ea	@ _____	\$ _____
	b. Deep Foundation	_____ ea	@ _____	\$ _____
7.	Field Geotechnical Engineer	_____ days	@ _____	\$ _____
8.	Geotechnical Report without soil Subgrade Investigation	_____ LS	@ _____	\$ _____
9.	Geotechnical Report with soil Subgrade Investigation	_____ LS	@ _____	\$ _____
			TOTAL	\$ _____

b. The amount of \$ _____, is an estimate of the cost which the CONSULTANT will incur in fulfilling the requirements of section F of Appendix "A". The final

amount will be adjusted according to the actual units of work performed; however, the final amount shall not exceed \$_____ unless and until a supplemental agreement is executed.

4. The CONSULTANT shall receive as payment for the work under this agreement related to pavement investigation based on the specific cost per unit multiplied by the actual units of work performed.

- | | | | | |
|----|--|----|---------|----------|
| a. | Pavement core,
partial depth _____ | ea | @ _____ | \$ _____ |
| b. | Pavement core,
full depth _____ | ea | @ _____ | \$ _____ |
| c. | Concrete core density
determination _____ | ea | @ _____ | \$ _____ |
| d. | Concrete core compressive
strength test _____ | ea | @ _____ | \$ _____ |
| e. | Bituminous extraction
test _____ | ea | @ _____ | \$ _____ |
| f. | Sieve analysis
of extracted
aggregate test _____ | ea | @ _____ | \$ _____ |
| g. | Recovery of
asphalt from
solution by
Abson Method _____ | ea | @ _____ | \$ _____ |
| h. | Asphalt
penetration
test _____ | ea | @ _____ | \$ _____ |
| i. | Asphalt
viscosity
test _____ | ea | @ _____ | \$ _____ |
| j. | Asphalt
recycling
analysis _____ | ea | @ _____ | \$ _____ |

k. Pavement
analysis _____ ea @ _____ \$ _____

The amount of \$ _____, is an estimate of the cost which the CONSULTANT will incur in fulfilling the requirements of Section G of Appendix "A". The final amount will be adjusted according to the actual units of work performed; however, the final amount shall not exceed \$ _____ unless and until a supplemental agreement is executed.

B. Method of Payment

1. The CONSULTANT may submit a maximum of one invoice voucher per calendar month for work covered under this Agreement. The invoice voucher shall be submitted to the LOCAL PUBLIC AGENCY.

The invoice voucher shall represent the value, to the LOCAL PUBLIC AGENCY, of the partially completed work as of the date of the invoice voucher. The CONSULTANT shall attach thereto a summary of each pay item in Section A2 of this Appendix, percentage completed and prior payments.

2. The LOCAL PUBLIC AGENCY, for and in consideration of the rendering of the engineering services provided for in Section B, Section C, Section D, Section E, Section F and Section H of Appendix "A", agrees to pay to the CONSULTANT for rendering such services the fees established above in the following manner:

- a. For completed work, and upon receipt of invoices from the CONSULTANT and the approval thereof by the LOCAL PUBLIC AGENCY, payments covering the work performed

shall be due and payable to the CONSULTANT.

From the partial payment thus computed, there shall be deducted all previous partial fee payments made to the CONSULTANT.

3. The LOCAL PUBLIC AGENCY for and in consideration of the rendering of the engineering services provided for in Section A and Section G of Appendix "A", agrees to pay the CONSULTANT for rendering such services the fee established above upon completion of the work thereunder and acceptance thereof by the LOCAL PUBLIC AGENCY.
4. In the event of a substantial change in the scope, character or complexity of the work on the project, the maximum fee payable and the specified fee shall be adjusted in accordance with item 12, (changes in work) of the General Provisions, set out in this Agreement.